

1 **In the Claims**

2 Please amend claim 34 as indicated below:

3  
4 1. **(PREVIOUSLY AMENDED)** An email filtering method  
5 comprising:

6 defining at least one heuristic that determines whether an incoming email  
7 message likely constitutes unsolicited commercial email by considering an  
8 established pattern that such unsolicited commercial email typically exhibits when  
9 it is sent;

10 applying said at least one heuristic to at least one email message that is  
11 received by a web server that comprises part of a web-based email system in  
12 which, for at least some users of the system, a client user interface email  
13 environment is generated through use of HTML or web pages; and

14 redirecting said at least one email message if application of said at least one  
15 heuristic indicates that said at least one email message likely constitutes  
16 unsolicited commercial email,

17 wherein said redirecting comprises placing a copy of the email message at a  
18 location not dedicated to storage of just one particular user's email.

19  
20 2. **(ORIGINAL)** The email filtering method of claim 1, wherein said  
21 redirecting comprises placing a copy of the email message at a single location  
22 from which it can be accessed by more than one intended recipient of the email  
23 message.  
24  
25

1           3.     **(ORIGINAL)** The email filtering method of claim 1, wherein said  
2 defining comprises defining a plurality of heuristics that are independent of the  
3 message conveyed by any of the content contained in an email message.

4  
5           4.     **(ORIGINAL)** The email filtering method of claim 1, wherein said  
6 at least one heuristic has at least one parameter that can be adjusted, and further  
7 comprising adjusting said at least one parameter to vary the pattern that is  
8 considered.

9  
10          5.     **(ORIGINAL)** The email filtering method of claim 1, wherein said  
11 at least one heuristic considers a pattern associated with the number of specified  
12 recipient addresses of the email message.

13  
14          6.     **(ORIGINAL)** The email filtering method of claim 5, wherein the  
15 pattern is associated with the number of invalid specified recipient addresses.

16  
17          7.     **(ORIGINAL)** The email filtering method of claim 1, wherein said  
18 at least one heuristic considers a pattern associated with the size of an email  
19 message.

20  
21          8.     **(ORIGINAL)** The email filtering method of claim 1, wherein said  
22 at least one heuristic considers patterns associated with the number of specified  
23 recipient addresses of the email message and the size of the email message.

1           9.    **(ORIGINAL)**   The email filtering method of claim 1 further  
2 comprising after said redirecting, notifying at least one intended recipient that an  
3 email message intended for them has been redirected.

4  
5           10.   **(ORIGINAL)**   The email filtering method of claim 1, wherein said  
6 redirecting comprising redirecting said at least one email message to a location  
7 that can be shared by a plurality of intended recipients for reading said email  
8 message, and further comprising after said redirecting, notifying intended  
9 recipients of the email message that an email message intended for them has been  
10 redirected to said location.

11  
12           11.   **(ORIGINAL)**   The email filtering method of claim 10, wherein said  
13 redirecting comprises storing only one copy of the email message.

14  
15           12.   **(PREVIOUSLY AMENDED)**   An email filtering method  
16 comprising:

17           receiving an email message at an email server that maintains inboxes for  
18 individual recipients, wherein the email message is addressed to a plurality of  
19 recipients, the email server comprising part of an Internet-based email system in  
20 which, for at least some users of the system, a client user interface email  
21 environment is generated through use of HTML or web pages;

22           calculating a score for the email message at the server location based upon  
23 at least one of (a) the size of the email message, and (b) the number of specified  
24 recipient addresses;

1 comparing the score with a threshold value that defines a likelihood of  
2 whether an email message constitutes an unwanted email message;

3 responsive to the email message exceeding the threshold value, placing a  
4 copy of the email message at a first location other than an individual storage  
5 location dedicated to an individual intended recipient of the email message; and

6 sending a notification to the intended recipients that a copy of an email  
7 message that was intended for them has been placed at the first location.

8  
9 13. (ORIGINAL) The email filtering method of claim 12, wherein the  
10 threshold value is determined independent of the message conveyed by any of the  
11 text that is contained in any part of the email message.

12  
13 14. (ORIGINAL) The email filtering method of claim 12, wherein the  
14 score is based upon both the size of the email message and the number of specified  
15 recipient addresses.

16  
17 15. (ORIGINAL) The email filtering method of claim 12, wherein said  
18 first location is a storage location that is managed by the email server.

19  
20 16. (ORIGINAL) The email filtering method of claim 12, wherein said  
21 threshold value is based upon the number of invalid specified recipient addresses.

22  
23 17. (ORIGINAL) The email filtering method of claim 12, wherein said  
24 sending of the notification comprises placing a pointer in an email folder of each  
25 recipient of the email message.

1  
2 18. **(ORIGINAL)** The email filtering method of claim 12 further  
3 comprising responsive to a request from a recipient, making a recipient copy of the  
4 email message and placing the recipient copy at a dedicated recipient storage  
5 location.

6  
7  
8 19. **(PREVIOUSLY AMENDED)** A computer program stored on one  
9 or more computer readable media for processing email, the program comprising  
10 the following steps:

11 receiving an email message at a server location, the email message being  
12 addressed to a plurality of recipients, the server location comprising one or more  
13 servers that comprise part of an Internet-based email system in which, for at least  
14 some users of the system, a client user interface email environment is generated by  
15 the system through use of HTML or web pages that are sent via the Internet to  
16 client devices and used by a browser executing on a client device to render the  
17 user interface email environment;

18 placing only one copy of the email message at a first storage location that is  
19 not a dedicated storage location for just one of the intended recipients; and

20 notifying each of the intended recipients that an email message intended for  
21 them has been placed at the first location.

22 20. **(ORIGINAL)** The steps of claim 19, wherein the first storage  
23 location is a storage location that is managed by a server associated with the server  
24 location.  
25

1           21.   **(ORIGINAL)** The steps of claim 19, wherein the first storage  
2 location is a storage location that is managed by a server associated with the server  
3 location, and is accessible to any of the intended recipients.

4  
5           22.   **(ORIGINAL)** The steps of claim 19, wherein said notifying  
6 comprises creating a pointer to the first location, and placing the pointer at a  
7 plurality of second locations each of which being dedicated to a different one of  
8 the intended recipients, wherein individual recipients can use the pointer to access  
9 the email message at the first storage location.

10  
11           23.   **(ORIGINAL)** The steps of claim 19 further comprising prior to  
12 said placing:

13           defining a profile of unwanted email messages based upon at least one of:  
14 the size of an email message, the number of specified recipient addresses, and the  
15 number of invalid specified recipient addresses;

16           determining whether an email message meets the profile; and

17           wherein said placing and said notifying takes place only if the email  
18 message meets the profile.

19  
20           24.   **(ORIGINAL)** A programmed email server that contains computer-  
21 readable instructions which, when executed by the email server, perform the  
22 following steps:

23           determining whether an email message that is received by the email server  
24 likely constitutes an unwanted email message, the email server comprising part of  
25 a web-based email system in which, for at least some users of the system, a client

1 user interface email environment is generated through use of HTML or web pages  
2 that are sent to client devices; and

3 if the email message likely constitutes an unwanted email message:

4 storing a copy of the email message at a first storage location rather than  
5 individual storage locations that are dedicated to individual intended recipients of  
6 the email message; and

7 notifying intended recipients of the email message that an email message  
8 addressed to them has been received by the server.

9  
10 25. **(ORIGINAL)** The steps of claim 24, wherein said determining  
11 takes place without considering the message conveyed by any content of the  
12 sender's address field, the subject field, or the message field.

13  
14 26. **(ORIGINAL)** The steps of claim 24 further comprising enabling  
15 intended recipients, if they so desire, to read the email message at the first storage  
16 location.

17  
18 27. **(ORIGINAL)** The steps of claim 26, wherein said enabling  
19 comprises doing so without making any copies of the copy of the email message at  
20 the first storage location.

21  
22 28. **(ORIGINAL)** The steps of claim 26 further comprising receiving  
23 instructions from an intended recipient that a copy of the email message be made  
24 specifically for them, and responsive thereto, making a copy of the email message,  
25 and storing said copy at a recipient-specific location.

1  
2 29. (ORIGINAL) The steps of claim 24, wherein said determining  
3 takes place by considering the size of the email message.

4  
5 30. (ORIGINAL) The steps of claim 24, wherein said determining  
6 takes place by considering the number of specified recipient addresses of the email  
7 message.  
8

9 31. (ORIGINAL) The steps of claim 24, wherein said determining  
10 takes place by considering the number of invalid specified recipient addresses.  
11

12 32. (ORIGINAL) The steps of claim 24, wherein said determining  
13 takes place by defining a plurality of heuristics that establish a profile of unwanted  
14 email messages, wherein the profile considers factors that are independent of any  
15 message conveyed by an email message's content, and applying the plurality of  
16 heuristics to an email message.  
17

18 33. (ORIGINAL) The steps of claim 32, wherein the heuristics are  
19 adjustable.  
20

21 34. (CURRENTLY AMENDED) An email screening method  
22 comprising:

23 developing a profile of unsolicited commercial email based upon the size of  
24 an email message and the number of specified recipient addresses of the email  
25 message;



1 configuring a mail server that is responsible for storing and distributing  
2 email messages to a plurality of clients with a filter processor that is programmed  
3 to evaluate email messages that are received in light of the developed profile, the  
4 mail server comprising part of a web-based email system in which, for at least  
5 some users of the system, a client user interface email environment is generated  
6 through use of HTML or web pages that are sent to client devices;

7 evaluating email messages with the filter processor and determining  
8 whether the email messages fit the developed profile; and

9 if an email message fits the developed profile, initiating a remedial measure  
10 that ensures that the mail server does not make as many copies of the email  
11 message as there are specified recipient addresses, yet still allows the email  
12 message to be accessible to at least one recipient.

13  
14 35. (ORIGINAL) The email screening method of claim 34, wherein  
15 said remedial measure comprises storing one copy of the email message at a server  
16 storage location, instead of storing multiple copies of the email message for the  
17 specified recipient addresses.

18  
19 36. (ORIGINAL) The email screening method of claim 34, wherein  
20 said remedial measure comprises storing one copy of the email message at a server  
21 storage location, instead of storing multiple copies of the email message for the  
22 specified recipient addresses, and notifying intended recipients that an email  
23 message intended for them has been stored at the server storage location.  
24  
25

1           37. (ORIGINAL) The email screening method of claim 34, wherein  
2 said remedial measure comprises storing one copy of the email message at a server  
3 storage location, instead of storing multiple copies of the email message for the  
4 specified recipient addresses, and notifying intended recipients that an email  
5 message intended for them has been stored at the server storage location by  
6 placing a pointer in a designated email folder for the intended recipients.

7  
8           38. (ORIGINAL) The email screening method of claim 37 further  
9 comprising, for each recipient who so desires, reading the email message from the  
10 server storage location.

11  
12           39. (ORIGINAL) The email screening method of claim 37 further  
13 comprising, for each recipient who so desires, copying the email message from the  
14 server storage location to a recipient-location.

15  
16           40. (PREVIOUSLY AMENDED) An email delivery method  
17 comprising:

18           establishing a bulk email folder in which bulk email is to be stored;

19           configuring an email server to receive email messages and deliver them  
20 either to multiple server storage locations that are dedicated to storing email  
21 messages for respective recipients or to a single, shared location that can be shared  
22 by a plurality of the recipients, the email server comprising part of an email  
23 system in which, for at least some users of the system, a client user interface email  
24 environment is generated through use of HTML or web pages that are sent to  
25 client devices;

1 receiving an email message;  
2 comparing an address for the sender of the email message with a recipient's  
3 list of approved senders; and  
4 delivering the email message to the single, shared location if: (a) the email  
5 message is not directly addressed to a recipient that is serviced by the server, and  
6 (b) the sender's address does not appear in the recipient's list of approved senders.

7  
8 41. **(ORIGINAL)** The email delivery method of claim 40 further  
9 comprising maintaining the email message at the single, shared location only for a  
10 determinable amount of time.

11  
12 42. **(PREVIOUSLY AMENDED)** An email screening method  
13 comprising:

14 developing a profile of unwanted email messages based upon whether an  
15 email message is similar in content to another email message;

16 configuring a mail server that is responsible for storing email messages for  
17 a plurality of clients with a filter processor that is programmed to evaluate email  
18 messages that are received in light of the developed profile, the mail server  
19 comprising part of an email system in which, for at least some users of the system,  
20 a client user interface email environment is generated through use of HTML or  
21 web pages that are sent to client devices;

22 evaluating email messages with the filter processor and determining  
23 whether the email message fits the developed profile; and

24 if the email message fits the developed profile, placing a copy of the email  
25 message in a first location and, rather than placing multiple copies of the email

1 message in multiple dedicated client storage locations, notifying the multiple  
2 clients that an email message addressed to them has been received so that the  
3 clients can read the email message if they so desire.

4  
5 43. **(PREVIOUSLY AMENDED)** An email screening method  
6 comprising:

7 defining an index having values that are assigned to various degrees of  
8 desirability that an email message can have, wherein the degrees of desirability  
9 extend from a low degree of desirability to a high degree of desirability;

10 associating a plurality of parameters having parameter values with the  
11 various degrees of desirability, wherein at least some of the parameters do not  
12 depend on any message that is conveyed by any content of an email message; and

13 establishing a user interface through which a user can adjust either (a)  
14 individual parameter values that, in turn, establish a degree of desirability, or (b)  
15 index values that themselves establish a degree of desirability that email messages  
16 must have in order to be saved to dedicated user storage locations; and

17 evaluating, using a computing device comprising part of an email system in  
18 which, for at least some users of the system, a client user interface email  
19 environment is generated through use of HTML or web pages that are sent to  
20 client devices, incoming email messages against the index value that is defined by  
21 the user.

22  
23 44. **(ORIGINAL)** The email screening method of claim 43, wherein the  
24 parameter values are adjustable.  
25

1           45.   **(ORIGINAL)** The email screening method of claim 43, wherein  
2 one of the parameters is associated with the number of specified recipient  
3 addresses.

4  
5           46.   **(ORIGINAL)** The email screening method of claim 43, wherein  
6 one of the parameters is associated with a percentage of invalid specified recipient  
7 addresses.

8  
9           47.   **(ORIGINAL)** The email screening method of claim 43, wherein  
10 one of the parameters is associated with the size of an email message.

11  
12           48.   **(PREVIOUSLY AMENDED)** An email server system comprising:  
13 a user storage database configured to store user information including email  
14 messages that are intended for individual users; and

15 a server configured to receive email messages that are intended for various  
16 users and store the email messages in dedicated user storage locations within the  
17 user storage database;

18 wherein the server is further configured to screen email messages based  
19 upon a set of heuristics that determine whether an email message likely constitutes  
20 an unwanted email message, the server further being configured to place a single  
21 copy of an email message in a storage location that is not a dedicated user storage  
22 location if it is determined by screening the email message that it likely constitutes  
23 an unwanted email message, said system comprising an Internet-based system that  
24 is configured to send email messages to users in a format in which a user's  
25

1 browser application processes the email messages and provides a user interface for  
2 a user to view the email messages.

3  
4 49. (ORIGINAL) The email server system of claim 48, wherein the set  
5 of heuristics considers the size of an email message.

6  
7 50. (ORIGINAL) The email server system of claim 48, wherein the set  
8 of heuristics considers the number of specified user addresses that are specified by  
9 an email message.

10  
11 51. (ORIGINAL) The email server system of claim 48, wherein the set  
12 of heuristics considers the number of invalid specified user addresses that are  
13 specified by an email message.

14  
15 52. (ORIGINAL) The email server system of claim 48, wherein the  
16 server is further configured to place a pointer to the storage location in which the  
17 single copy of the email message is placed, in each dedicated user storage location  
18 that corresponds to a valid specified user address contained in the email message.

19  
20 53. (ORIGINAL) An email filtering method comprising:  
21 defining at least one heuristic that determines whether an incoming email  
22 message likely constitutes unsolicited commercial email by considering an  
23 established pattern that such unsolicited commercial email typically exhibits when  
24 it is sent;

25 applying said at least one heuristic to at least one email message; and

1 redirecting said at least one email message if application of said at least one  
2 heuristic indicates that said at least one email message likely constitutes  
3 unsolicited commercial email, wherein said redirecting comprises placing a copy  
4 of the email message at a location not dedicated to storage of just one particular  
5 user's email.

6  
7 54. (ORIGINAL) The email filtering method of claim 53, wherein said  
8 redirecting comprises placing a copy of the email message at a single location  
9 from which it can be accessed by more than one intended recipient of the email  
10 message.

11  
12 55. (ORIGINAL) The email filtering method of claim 53, wherein said  
13 defining comprises defining a plurality of heuristics that are independent of the  
14 message conveyed by any of the content contained in an email message.

15  
16 56. (ORIGINAL) The email filtering method of claim 53, wherein said  
17 at least one heuristic has at least one parameter that can be adjusted, and further  
18 comprising adjusting said at least one parameter to vary the pattern that is  
19 considered.

20  
21 57. (ORIGINAL) The email filtering method of claim 53, wherein said  
22 at least one heuristic considers a pattern associated with the number of specified  
23 recipient addresses of the email message.

1 58. (ORIGINAL) The email filtering method of claim 53, wherein the  
2 pattern is associated with the number of invalid specified recipient addresses.

3  
4 59. (ORIGINAL) The email filtering method of claim 53, wherein said  
5 at least one heuristic considers a pattern associated with the size of an email  
6 message.  
7

8 60. (ORIGINAL) The email filtering method of claim 53, wherein said  
9 at least one heuristic considers patterns associated with the number of specified  
10 recipient addresses of the email message and the size of the email message.

11  
12 61. (ORIGINAL) The email filtering method of claim 53, further  
13 comprising after said redirecting, notifying at least one intended recipient that an  
14 email message intended for them has been redirected.

15  
16 62. (ORIGINAL) The email filtering method of claim 53, wherein said  
17 redirecting comprising redirecting said at least one email message to a location  
18 that can be shared by a plurality of intended recipients for reading said email  
19 message, and further comprising after said redirecting, notifying intended  
20 recipients of the email message that an email message intended for them has been  
21 redirected to said location.

22  
23 63. (ORIGINAL) The email filtering method of claim 53, wherein said  
24 redirecting comprises storing only one copy of the email message.  
25



1 64. (ORIGINAL) An email filtering method comprising:  
2 receiving an email message at an email server that maintains inboxes for  
3 individual recipients;  
4 calculating a score for the email message at the server location based upon  
5 at least one of (a) the size of the email message, and (b) the number of specified  
6 recipient addresses;  
7 comparing the score with a threshold value that defines a likelihood of  
8 whether an email message constitutes an unwanted email message;  
9 responsive to the email message exceeding the threshold value, placing a  
10 copy of the email message at a first location other than an individual storage  
11 location dedicated to an individual intended recipient of the email message; and  
12 sending a notification to the intended recipients that a copy of an email  
13 message that was intended for them has been placed at the first location.

14  
15 65. (ORIGINAL) The email filtering method of claim 64, wherein the  
16 threshold value is determined independent of the message conveyed by any of the  
17 text that is contained in any part of the email message.

18  
19 66. (ORIGINAL) The email filtering method of claim 64, wherein the  
20 score is based upon both the size of the email message and the number of specified  
21 recipient addresses.

22  
23 67. (ORIGINAL) The email filtering method of claim 64, wherein said  
24 first location is a storage location that is managed by the email server.  
25

1 68. (ORIGINAL) The email filtering method of claim 64, wherein said  
2 threshold value is based upon the number of invalid specified recipient addresses.

3  
4 69. (ORIGINAL) The email filtering method of claim 64, wherein said  
5 sending of the notification comprises placing a pointer in an email folder of each  
6 recipient of the email message.  
7

8 70. (ORIGINAL) The email filtering method of claim 64 further  
9 comprising responsive to a request from a recipient, making a recipient copy of the  
10 email message and placing the recipient copy at a dedicated recipient storage  
11 location.

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